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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/684,684	10/15/2003	Kohei Yamanaka	Q76899	3402	
23373 7590 06/21/2007 SUGHRUE MION, PLLC			EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			GARCIA, ERNESTO		
			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037			3679		
			· :		
		•	MAIL DATE	DELIVERY MODE	
•			06/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/684,684	YAMANAKA ET AL.		
Examiner	Art Unit		
Ernesto Garcia	3679		

•	Ernesto Garcia	3679	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED <u>08 June 2007</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR AL	LOWANCE.	[
The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apperior Continued Examination (RCE) in compliance with 37 Coperiods:	the same day as filing a Notice of A replies: (1) an amendment, affidavit eal (with appeal fee) in compliance v	Appeal. To avoid abar , or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires 3 months from the mailing date	of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire a Examiner Note: If box 1 is checked, check either box (a) or (iii)	ater than SIX MONTHS from the mailing	date of the final rejection	n.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(1		TINGT NEFET WAS FI	LED WITHIN TWO
Extensions of time may be obtained under 37 CFR 1.136(a). The date of nave been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	ension and the corresponding amount or hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropria	ate extension fee e action; or (2) as
2. The Notice of Appeal was filed on A brief in completing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, b	out prior to the date of filing a brief	will not be entered be	021100
(a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below	nsideration and/or search (see NOT		cause
(c) They are not deemed to place the application in bett appeal; and/or	• •	lucing or simplifying th	ne issues for
(d) They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	cted claims.	
<ul> <li>I. ☐ The amendments are not in compliance with 37 CFR 1.12</li> <li>I. ☐ Applicant's reply has overcome the following rejection(s):</li> </ul>		npliant Amendment (I	PTOL-324).
Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	t canceling the
7. For purposes of appeal, the proposed amendment(s): a) [ how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		be entered and an ex	xplanation of
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: <u>1,4-11 and 21-24</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).			
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appeal	l and/or appellant fails	s to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	·	` ' ' '	
<ul> <li>11.          ☐ The request for reconsideration has been considered but See Continuation Sheet.</li> <li>12.          ☐ Note the attached Information Disclosure Statement(s). (</li> </ul>	/		ce because:
3.  Other:			ļ
	•	DANIEL P. S	TODOLA
		SUPERVISORY PAT	ENT EXAMINER

TECHNOLOGY CENTER 3500

Continuation of 5. Applicant's reply has overcome the following rejection(s):

Continuation of 11. does NOT place the application in condition for allowance because: Applicants argue that the grooves in Dent do not have "a cross section having opposed faces substantially in parallel with each other" and remark that the annotated "A1" in Figures 4 and 8 do not correspond to parallel faces. In response, it should be noted that the language does not exactly specify that the faces are parallel but rather "substantially in parallel with each other", which has been given its broadest reasonable interpretation as "approximately parallel to each other". Further, even if the claims were to be amended to recite parallel opposed faces, it would have been obvious to modify the shape of the groove since making the groove round or square is an alternative design configuration serving the same locking purpose. Applicants further argue that the longitudinal grooves 64 in Dent are not illustrated in cross-section and that there is no support for parallel opposing faces either. In response, it should be noted that the claims recite "substantially parallel to each other" and thus is open for interpretation since the language does not exactly specify parallel planar surfaces but rather "approximately" parallel to each other.

Applicants further argue that Dent fails to disclose "a caulked portion provided to the cylindrical member at a position corresponding to the at least one groove of the shaft member, having an inner surface in press contact with the opposed faces of the groove". Applicants further argue that Dent fails to show the "caulked portion of the cylindrical member 22 is [are] in press contact with such parallel faces". In response, it should be noted that the mating piece contains corresponding valleys and crests with similar faces that are also "substantially parallel to each other". One can see from Figure 8 that this occurs. Accordingly, there is a "caulked portion provided to the cylindrical member at a position corresponding to the at least one groove of the shaft member, having an inner surface in press contact with the opposed faces of the groove".

Applicants further argue that Dent also fails to disclose "the cylindrical member 22 is spaced apart from the shaft member by a clearance except at this caulked portion". In response, the examiner has been this language its broadest reasonable interpretation. It should be noted that the examiner has annotated this clearance as A2 in Figure 8 thus the cylindrical member 22 is spaced apart from the shaft member at this location thus meeting the language "except at the caulked portion". Another way of looking at this is that the clearance is next to the caulked portion, which is the portion the cylindrical member makes contact with the shaft member. Applicants argue that the annotated reference ""A2" is merely the end portion of the shaft 10, which has a tapered edge". In response, this argument is not persuasive since the examiner clearly identifies this clearance using A2, and reference A2 is not intended to depict the tapered edge as applicants allege. Applicants further argue that the remaining areas between the shaft and cylindrical member should be formed with a clearance in order to meet this limitation of claim 21. In response, it should be noted that the claim is open ended and the caulked portion will include everything that the clearance is not present. Furthermore, it should be noted that Dent specifies, in column 4, lines 16-21, that the inside diameter of the tube "must allow for a sliding fit of the end portion 44 of the tube over the insert 10". Thus, it is clear that no press fit occurs in Dent and thus allows sliding over. Accordingly, the clearance A2 as identified by the examiner not only occurs at the end but rather everywhere else to allow a "sliding fit" rather than a friction fit.